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ABSTRACT

The guide is arranged in vertical columns relating the sociology curriculum concepts to curriculum performance objectives, career concepts and career performance objectives, suggested teaching methods, and resource materials. Career information on twenty occupations includes comments on what a person in the occupation does, the level of education required, approximate salary range, approximate number of people in the field, and employment opportunities. Space is provided for teachers' additions, deletions, notes, and criticisms, which will be useful when the guide is revised. Appendixes list suggestions for teaching-learning activities; career development concepts; significant terms and names in sociology; organizations, periodicals, and selected references for career information, and audio-visual source information..(AG)

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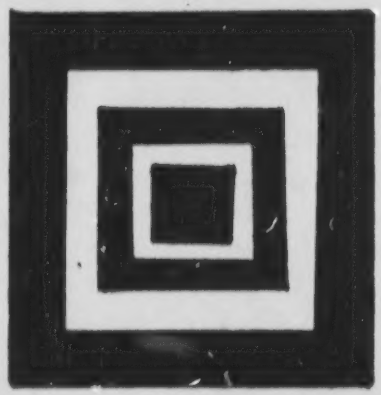

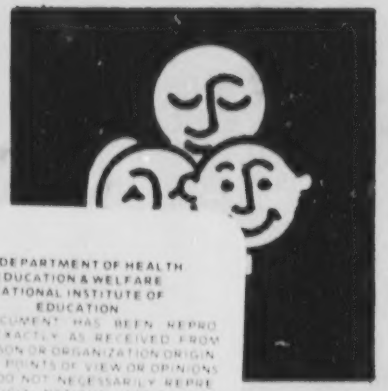

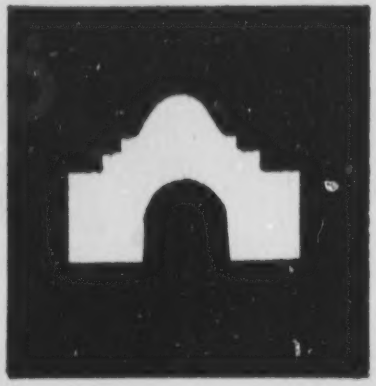

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Career - Curriculum Guide

CAREER EDUCATION CENTER

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SOCIOLOGY

CE 001 088

CAREER EDUCATION CENTER

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SAN ANTONIO, TEXAS

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SOCIOLOGY

CURRICULUM GUIDE

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Harlandale Independent School District
San Antonio, Texas

A C K N O W L E D G E M E N T S

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Mr. Hardy D. Cannon - Social Studies Department Chairman

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P H I L O S O P H Y

The philosophy of the Harlandale Independent School District is that the student's mental and moral values are of supreme importance.

The philosophy of Career Education is to restore dignity to the word work. Social studies in the Harlandale district is the means by which these two are achieved. The student realizes that service to others, self-respect, and pride in finishing a job is the pathway to happiness.

As the student explores the society of which he is a part, he is led to develop and test orderly explanations of human behavior and his relationships to the physical and cultural environment.

In social studies, the student develops a reverence and appreciation for the heritage left him by the people who made the great American dream possible.

In the social studies, if nowhere else, the consideration of the student's development and mental health, within the purview of the meanings of civilization, is paramount. The student is of supreme moral worth.

Hardy D. Cannon
Social Studies Department Chairman
Harlandale Independent School District

Preface

Meaningful existence is the goal of life in today's world. Living takes on meaning when it produces a sense of self-satisfaction. The primary task of education must be to provide each individual with skills necessary to reach his goal.

When children enter school, they bring with them natural inquisitiveness concerning the world around them. Normal curiosity can be the nucleus which links reality to formal training if it is properly developed. A sense of continuity must be established which places education in the correct perspective. Communities must become classrooms and teachers resource persons. Skills such as listening, problem solving, following directions, independent thinking and rational judgement then can merge into daily living procedures.

In classrooms especially designed to form a bridge between school and the world of work, experiences must be developed. On campus performance in job tasks and skills, following a planned sequence of onsite visitation, will fuse information into reality. Practical relationships developed with those outside the formal school setting will provide an invaluable carry-over of learned skills.

Search for a rewarding life vocation is never easy. Without preparation it becomes a game of chance. With a deliberate, sequential, and planned program of development, decisions can be made based upon informed and educated judgements.

A full range career education program, K-12, will offer opportunities for participants to enter employment immediately upon completion of training, post secondary vocational-technical education, and/or a four-year college career preparatory program.

C. N. Boggess

C. N. Boggess, Superintendent
Harlandale Independent School District

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WHAT IS HISTORY?

"History is past politics, and politics present history." --Sir John Robert Seeley

"Man has no nature, what he has is ... history." --Jose Ortega y Gasset

"The worst possible enemy to society is the man who ... is cut loose in his standards of judgment from the past; and universities which train men to use their minds without carefully establishing the connection of their thought with that of the past, are instruments of social destruction." -- Woodrow Wilson

"Fellow-citizens, we cannot escape history." --Abraham Lincoln

"The history of the world is but the biography of great men." --Thomas Carlyle

"No man is fit to be entrusted with the control of the present, who is ignorant of the past, and People who are indifferent to their past need hope to make their future great."--Anon.

"Human history is in essence a history of ideas." -- H. G. Wells

"History is the memory of things said and done." -- Carl L. Becker

"I shall be content if those shall pronounce my history useful who wish to be given a view of events as they really happened, and as they are very likely to repeat themselves." --Thucydides

"The use of history is to give value to the present hour and its duty." --Ralph Waldo Emerson

"To enable man to understand the society of the past and to increase his mastery over the society of the present is the dual function of history." --Edward H. Carr

"When experience is not retained, as among savages, infancy is perpetual. Those who cannot remember the past are condemned to repeat it." --George Santayana

"We may gather out of history a policy no less wise than eternal; by the comparison and application of other men's forepassed miseries with our own like errors and ill deservings." --Sir Walter Raleigh

"To be ignorant of what happened before you were born is to be ever a child. For what is man's lifetime unless the memory of past events is woven with those of earlier times?" --Cicero

"History by apprising them (men) of the past, will enable them to judge the future ... it will qualify them as judges of the actions and designs of men." --Thomas Jefferson

Dear Teacher,

This guide is intended to be a "tool" for you to use, draw from, and then add to as you wish throughout the year. The column entitled "teacher's comments" is for you to write comments or make additions to the guide. Additional pages may be inserted if necessary. At the end of this school year, this guide will be returned to the Career Education Center. After reading your comments and suggestions for additions, a new guide will be written. We want this guide to be useful to you and will need your suggestions for revision.

During the school year, please contact me at the Career Education Center if I can help you in any way.

Karla Galindo
Social Studies Consultant,
Career Education Center
924-8272 or 922-3841

S O C I O L O G Y

(a one quarter course)

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
SOCIOLOGY: A SOCIAL SCIENCE - Definition - Characteristics - Scope - Methods of inquiry - Value - Significant terms	The student should be able to perform the following activities: 1. In a one page paper, define sociology. 2. Name at least two characteristics of sociology. 3. Briefly explain the methods of inquiry of sociology. 4. Define correctly with 90% accuracy a list of significant terms in sociology. 5. In a one page paper, explain why it is more difficult to maintain objectivity in the social sciences than in the natural sciences.	CONCEPT: There are many job opportunities for sociologists today. OBJECTIVE: The student should be able to name three areas of specialization for the sociologist. Example: Demographer.	SOCIOLOGISTS: 1. The objective of the sociologist's study involves people and their customs. 2. Almost all careers in sociology require graduate training. 3. About 10,000 people were employed as sociologists in 1968. 4. Most sociologists make from $10,000 to $25,000 per year. 5. The employment outlook in this field is good.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students debate the relative merits of "pure" versus "applied" research. 2. Have the students prepare a panel discussion on the importance of sociology in modern America. 3. Have the students read William B. Cameron's Informal Sociology and Staurt Chase's The Proper Study of Mankind. CAREER: 1. Ask a sociologist to speak to the class about his work.	CURRICULUM: 1. Education Service Center, Region 20: 16mm film- 4639 What is Science CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 367 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Sociological Association 1722 North Street, N.W. Washington, D.C. 20036 3. Harlandale Audio-Visual Center: magnetic tape- Mag.T. Sociologists	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
HISTORICAL BACKGROUND - Development - Auguste Comte - Herbert Spencer - Lester Ward - Twentieth Century	The student should be able to perform the following activities: 1. In a two page paper, discuss the historical development of the field of sociology. 2. Name Auguste Comte's major contribution to sociology. 3. Explain briefly what Ward and Spencer contributed to sociology. 4. Name two ways your community might utilize the assistance of sociology.	CONCEPT: Those who research, analyze, and evaluate such information are called historians. OBJECTIVE: The student should be able to participate in a class discussion about the contributions of historians.	HISTORIAN: 1. Historians are primarily engaged in teaching, research, or writing. Some historians are archivists. They identify, preserve, and make available documentary materials of historical value. 2. A graduate degree is usually necessary for a position in this field. 3. A historian working for the government usually makes from $6,500 to $20,000. Those working in colleges and universities make about $7,000 to $18,000. 4. There are approximately 15,500 people employed as historians. Employment in this occupation is expected to increase rapidly in the 1970's.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students research the historical development of the field of sociology. 2. Have some students prepare oral reports on the lives of Comte, Spencer, and Ward. 3. Have each student read a different book about the account of the development of sociology. Then have the students compare accounts. CAREER: 1. Ask a historian to visit the class to discuss his work.	CURRICULUM: CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 377 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Historical Association 400 A Street, S.E. Washington, D.C. 20003 3. Harlandale Audio-Visual Center: magnetic tape- Mag.T. Historians	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
SOCIAL ORGANIZATION - Basic forms - Groups - Roles - Changes - Social control	The student should be able to perform the following activities: 1. Name the five basic forms of social organization. 2. Name six types of group interactions. 3. Name the four types of groups. 4. List the structure and functional characteristics of roles. 5. In a two page paper, explain some of the changes in social organization. 6. Name the three types of social control.	CONCEPT: Groups interact through competition in professional athletics. OBJECTIVE: The student should be able to name some advantages and disadvantages of being a professional athlete.	PROFESSIONAL ATHLETES: 1. Professional athletes may play in the following areas: baseball, football, basketball, hockey, tennis, golf, bowling, boxing, wrestling, etc. 2. High school and college is helpful for most sports and especially for other employment when the athletic career is over. 3. Salaries are quite varied in professional athletics. 4. There are few opportunities in this area, and the competition is heavy.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have a panel of students discuss how much insight into the social organization of the people of other nations is likely to be gained by the American tourist abroad. 2. After reading Ruth Benedict's Patterns of Culture, have several students present a panel discussion dealing with the usefulness of the comparative method in understanding the development of man's social institutions. CAREER: 1. Ask a professional athlete to speak to the class.	CURRICULUM: 1. San Antonio Public Library: 16mm Belonging to the Group CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 36 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Harlandale Audio-Visual Center: cassette tape- Cas.T.-52 Golf Professional	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
CULTURE - Definition - Characteristics - Anthropology and culture - Subcultures - Norms - Dynamic nature of culture	The student should be able to perform the following activities: 1. Briefly define culture. 2. Name the seven characteristics of culture. 3. In a two page paper, discuss how anthropological studies have brought understanding of many of the important processes governing cultural development. 4. List the three types of subcultures. 5. Define the term norm. 6. Write a one page paper on the dynamic nature of culture.	CONCEPT: Cultural anthropologists study the social history of an area or group to understand the way of life. OBJECTIVE: The student should be able to name two ways the findings of a cultural anthropologist could help us.	CULTURAL ANTHROPOLOGISTS: 1. Anthropologists study cultures of many groups. The areas of study might be art, language, religion, etc. 2. A graduate degree is usually required for most positions in this field. 3. The salary range is usually from $8,000 to $20,000 +. 4. There are about 3,100 people in the field of anthropology. Out of this number, twenty percent are women. 5. The number of anthropologists is expected to increase throughout the 1970's.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have some students prepare reports on the effects of culture contacts resulting from World War I. 2. Have some students study some of the early North American Indian cultures and present a combined and comparative report to the class. 3. Have each student choose an invention from the Industrial Revolution and trace its origin and development. 4. Have the students prepare panel reports on the following topics: Is There an Over-emphasis on the Material Aspects of American Culture? and Implications of the Ever - increasing Pace of Culture Development. CAREER: 1. Invite an anthropologist from one of the local universities to visit the class and discuss his work.	CURRICULUM: 1. San Antonio Public Library: 16mm film- Americans All CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 197 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Education Service Center, Region 20: 16mm films- 8691 Man on the Land 8878 Prehistoric Images - The First Art of Man 3. References: Places and People by Margaret Mead 4. Harlandale Audio-Visual Center: magnetic tape- Mag.T. Anthropologists	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
SOCIALIZATION PROCESS - Definition - Characteristics - Development of the "Person" - Peer group	The student should be able to perform the following activities: 1. In a one page paper, define and explain the socialization process. 2. Name six characteristics of socialization. 3. List the four main steps in the development of the "person." 4. Define the term peer group.	CONCEPT: Psychologists study various aspects of human behavior. OBJECTIVE: The student should be able to name at least four places where psychologists are employed. Examples: schools, hospitals, etc.	PSYCHOLOGISTS: 1. Psychologists study human behavior by means of psychological tests, personal interviews, case histories, experiments, surveys, etc. 2. A master's degree is the minimum requirement for a psychologist. 3. Earnings vary considerably in this field. They may range from $15,000 to $45,000 + a year.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have each student prepare a brief, clinical description of the personality of some person he knows well. 2. Have the students read Charles H. Covey's book Human Nature and the Social Order and report on the concept of the "looking-glass self." 3. Have some students present a panel discussion on heredity and environment in the development of personality. CAREER: 1. Ask a psychologist to speak to the class about his work.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 8901 Psychological Differences Between the Sexes 8672 How to Solve a Problem 2. Harlandale Audio-Visual Center: record with filmstrip- PR-344 Failure: A Step Toward Growth 3. San Antonio Public Library: 16mm films- Answering the Child's Why Belonging to the Group Children on the Move Early Social Behavior Facing Reality Feeling of Hostility Improve Your Personality Individual Differences Life With Baby The Self-Motivated Achiever Shyness CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 137 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Psychologist Association 1200 Seventeenth Street, N.W. Washington, D.C. 20036	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
PRIMARY AND SECONDARY GROUPS - Definitions - Primary relations - Primary groups - Functions of primary groups - Secondary groups - Face-to-face groups	The student should be able to perform the following activities: 1. Define primary group and secondary group. 2. Name at least three ephemeral groups. 3. Write a three page paper discussing primary and secondary groups and their effect on behavior. 4. Name one primary group and one secondary group. 5. List three functions of a primary group.	CONCEPT: Social workers work closely with the primary group of each of their clients. OBJECTIVE: The student should be able to name at least three areas of specialization for social workers.	SOCIAL WORKERS: 1. Social workers attempt to alleviate or eliminate social problems, give advice, arrange for medical or financial assistance, refer clients to counseling services, housing facilities, etc. 2. The minimum educational requirement for social workers is a bachelor's degree. A graduate degree is necessary for certification. 3. The salaries for social workers range from about $6,000 to $15,000 + a year. 4. There is a shortage of social workers in the United States. There are about 13,000 openings a year in this field.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have each student study a class in action and list the observable forms of interaction. 2. Have the students prepare a panel discussion on the following topic: One is Known by the Company He Keeps. 3. Have each student design and draw a poster showing groups interacting. CAREER: 1. Ask a social worker to speak to the class about his work.	CURRICULUM: 1. Education Service Center, Region 20: 16mm film- 8942 Parents Are People Too 2. San Antonio Public Library: 16mm films- Belonging to the Group Children's Emotions A Family Affair Family Life CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 80 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Harlandale Audio-Visual Center: filmstrip- I-87 Social Service and the Social Worker cassette tape- Cas.T.-43 Social Worker magnetic tape- Mag.T Social Worker	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
SOCIAL STRATIFICATION - Definition - Social categories - Caste and class - Empirical investigation - Social supression - Social status and mobility	The student should be able to perform the following activities: 1. Briefly define social stratification. 2. Define caste and class. 3. In a one page paper, define emperical investigation. 4. List six criteria of class belonging. 5. Name three objects of social supression.	CONCEPT: In America, many feel that possession of a college degree brings respect and prestige. OBJECTIVE: The student should be able to name three special qualifications for college teachers. Examples: openess to new ideas, intelligence, etc.	COLLEGE TEACHER: 1. College teachers specialize in one particular curriculum area. They instruct their students through the use of lectures, discussions, and laboratory work. They must keep well informed in their particular field, engage in research, and write articles and books. 2. A graduate degree is necessary for most starting positions. A Ph.D. is preferred. 3. The salaries in 1969 ranged from about $6,330 to $28,490. 4. Because college enrollment is increasing, the demand for college teachers is fairly constant.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Prepare a list of occupations. Ask each student to rank the occupations and then compare the rankings. What conclusions are suggested by the results? 2. Using clippings from newspapers, magazines, and similar sources, prepare a bulletin board display on vertical mobility in the present-day United States. 3. Have each student interview at least five parents of younger children in their neighborhood. Ask the parents what they hope their children will achieve in life. Without using actual names, explain to the class how the findings relate to social mobility. CAREER: 1. Ask a college teacher to speak to the class.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 8893 What Color Are You 2389 Phoebe - Story of Premarital Pregnancy 8432 VD - See Your Doctor 2113 Merry-Go-Round 2. Harlandale Audio-Visual Center: record with filmstrip- PR-589 What is Prejudice CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 183 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Association of University Professors 1 Dupont Circle Washington, D.C. 20036 3. Harlandale Audio-Visual Center: cassette tape- Cas.T.-39 Professor	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
ASSOCIATIONS AND INSTITUTIONS - Definitions - Characteristics - Structure - Contrasts	The student should be able to perform the following activities: 1. Define and list the characteristics of associations and institutions. 2. In a three page paper, discuss the development of the American educational system. 3. List five functions that were transferred from one institution to another during the administration of Franklin D. Roosevelt.	CONCEPT: One institution may be served by many associations. The institution of education is served by schools, universities, private groups, etc. OBJECTIVE: The student should be able to name at least three areas of specialization for teachers. Examples: elementary, secondary, kindergarten, special education, vocational education, music, college, etc.	ELEMENTARY AND SECONDARY TEACHERS: 1. Teachers instruct students, plan and prepare lessons, give assignments, prepare and grade tests, keep records, etc. 2. The minimum requirement is a bachelor's degree. 3. Salaries vary according to the area in question. The range is usually from about $5,000 to $15,000 +. 4. The opportunities are good in some areas, other areas have an oversupply of teachers.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Prepare a bulletin board exhibit showing the primary functions of basic institutions. 2. Have the students prepare a debate on the topic of federal aid to education. 3. Have the students prepare a panel discussion on the following topic: How Can (or should) the Educational Institution Contribute to Our Culture? CAREER: 1. Have the students interview several teachers about their work.	CURRICULUM: 1. Education Service Center, Region 20: 16mm film- 2301 Challenge and the Chance CAREER: 1. Harlandale Audio-Visual Center: cassette tape- Cas.T.-35 High School Teacher 2. School Counselor or Librarian: SRA Occupational Brief # 5 and # 39 Dictionary of Occupational Titles Occupational Outlook Handbook 3. Write to: National Education Association 1201 Sixteenth Street, N.W. Washington, D.C. 20036	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
COLLECTIVE BEHAVIOR - Definition - Characteristics - Preconditions - Crowds - Behavior patterns - The public - Public opinion - Propaganda	The student should be able to perform the following activities: 1. Define the term collective behavior. 2. List the characteristics of unstructured collective behavior. 3. Name three basic preconditions of collective behavior. 4. In a one page paper, explain the characteristics and types of crowds. 5. List six characteristics of the public. 6. Briefly define social movements, fads, fashion, and rumor. 7. Define public opinion and propaganda.	CONCEPT: The spread of a new fashion style is similar to a fad, but tends to persist over a longer period of time. Adherence to tradition and unexpected innovation both characterize cultural attitudes toward fashion. OBJECTIVE: The student should be able to list at least one special ability needed by a fashion designer. Examples: knowledge of fabrics, sketching, etc.	FASHION DESIGNER: 1. The fashion designer is an artist with a sense of line, color, and form. Knowledge of details such as fabrics or accessories is necessary. 2. Designers are usually expected to have a college degree or from two to four years of training at a school specializing in fashion design. 3. Beginning designers usually make from $85 to $125 a week. With experience, they usually make from $8,000 to $30,000 a year. Top-level designers may earn as much as $50,000 to $100,000 a year. 4. The fashion industry is expanding and opportunities in this field are good.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have each student observe the activities of spectators at one of the school athletic events. 2. Ask a representative of the local police or sheriff's department to speak to the class in regard to problems involved in handling large groups of people or "mob" situations. 3. Have the students prepare a panel discussion on the advantages of "going along with the crowd." 4. Have each student do research on a mass movement in the United States. CAREER: 1. Ask a fashion designer to speak to the class.	CURRICULUM: 1. San Antonio Public Library: 16mm film- Public Opinion CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 142 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: New York Fashion Designers 1457 Broadway New York, New York 10036	

BEST COPY AVAILABLE

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
POPULATION - Definitions - Malthusian theory - Demographic factors - Statistics - Migration - World population growth - Immigration - Gerontology	The student should be able to perform the following activities: 1. In a one page paper, explain the Malthusian theory. 2. Write a three page paper explaining world population growth. 3. Define gerontology. 4. Name the four significant population ratios relating to birth and death. 5. Distinguish between migration and immigration.	CONCEPT: The rapid increase in population has had a profound effect on our way of life. Those who study population trends and growth are called demographers. OBJECTIVE: The student should be able to list and explain five reasons why demographic information is important. Example: projected housing needs, etc.	DEMOGRAPHER: 1. A demographer is a sociologist who specializes in the study of population changes. 2. Usually the minimum requirement for a sociologist is a master's degree with a major in sociology. 3. In 1970, the earnings for sociologists was about $9,000 to $20,000 +. 4. The employment outlook in this profession is good.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have several students assume the identities of leaders of various countries, such as Communist China, Japan, the Republic of Indonesia, etc. After researching the population problems and steps taken to meet them in each country, hold an "international conference" exchanging views and information before the class. 2. Have the students prepare a bulletin board display to illustrate the steps taken by man to make his life more secure and raise his standard of living despite growing population. 3. Have the students write to the UN and UNESCO for information on the world population problem. CAREER: 1. Ask a demographer to speak to the class.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 8227 Land of Immigrants 8637 Population Ecology 2151 Population Ecology 4481 Population Patterns of the United States 2188 Standing Room Only 2. Harlandale Audio-Visual Center: record with filmstrip- PR-734(BB-70) Population Statistics PR-734(BB-71) Population Trends CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 367 Dictionary of Occupational Titles Occupational Outlook Handbook	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
ECOLOGY - Definition - International aspects - The city - Ecological processes - Trends today	The student should be able to perform the following activities: 1. Define ecology. 2. Write a two page paper on the international aspects of ecology. 3. List six ecological processes. 4. Name and explain three ecological traps. 5. Name some of the most serious ecological problems facing the United States.	CONCEPT: Those who develop plans for the future of cities are called city planners. OBJECTIVE: The student should be able to list at least ten problems a city planner might encounter when designing future city development and expansion.	CITY PLANNERS: 1. A city, or urban, planner is responsible for developing plans and programs for the growth and redevelopment of urban areas. 2. A master's degree in planning is most desirable for work in this field; however, some beginning positions require no more than a bachelor's degree. 3. The salary depends on the experience of the individual and on the size of the city. The salary may range from about $8,000 to $30,000. 4. There were about 8,000 people employed as city planners in 1970. This profession is expected to grow throughout the 1970's.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students prepare a bulletin board display showing some ecological problems of today in the United States. 2. Ask a city representative to speak to the class about special ecological problems in your local community. 3. Have the students make posters depicting ecological problems of the day. CAREER: 1. Have a city planner from San Antonio visit the class to explain his job responsibilities.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 4127 Conserving our Forests Today 4128 Conserving Our Mineral Resources 4128 Conserving Our Water Resources Today 8692 To Clear The Air 8902 The Persistent Seed 2. Harlandale Audio-Visual Center: record with filmstrip- PR-735(BB-72) Some Ecological Considerations PR-735(BB-73) Evolution and Extinction PR-736(BB-74) Pesticides PR-736(BB-75) Pollution 16mm film- 16-291 What is Ecology 3. San Antonio Public Library: 16mm film- Tomorrow Will Not Wait CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 209 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Institute of Planners 917 Fifteenth Street, N.W. Washington, D.C. 20005	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
THE FAMILY - Definition - Importance - Classification - Functions - Changes - Family breakdown - Family stability	The student should be able to perform the following activities: 1. In a one page paper, explain why monogamy is man's most common form of marriage. 2. List the functions of the modern American family. 3. In a three page paper, explain how the American family has changed since colonial times.	CONCEPT: Changing attitudes toward divorce have increased the demand for divorce lawyers. OBJECTIVE: The student should be able to name and explain at least five areas of specialization in law.	LAWYERS: 1. It is the responsibility of a lawyer to advise and represent clients in courts of law. 2. An individual must be admitted to the bar before he can practice law in the courts of a state. The prerequisite to the bar exam is usually at least three years of college plus graduation from law school. 3. Beginning lawyers usually make around $9,000. With experience and success, some make as much as $35,000 +. 4. There were 280,000 lawyers employed in 1970. Three-fourths of these were in private practice. The outlook is good in this profession through the 1970's.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Prepare a socio-drama depicting an international convention of teenagers who have come together to discuss their respective family systems. 2. Have some students prepare a panel discussion on the following topic: What is Love? 3. Using cartoons and magazine asvertisements, prepare a bulletin board exhibit to portray the various stages of family life - namely, childhood, adolescence, dating, courtship, marriage, parenthood, grandparenthood, and widowhood (or widowerhood). CAREER: 1. Have an attorney speak to the class on responsibilities and opportunities in the law profession.	CURRICULUM: 1. Education Service Center, Region 20: 16mm film- 2378 Courtship and Marriage 2. San Antonio Public Library: 16mm films- Choosing for Happiness Marriage Today Roots of Happiness You and Your Family CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 9 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Bar Association 155 East 60th Street Chicago, Illinois 60637 4. Harlandale Audio-Visual Center: cassette tape- Cas.T.-47 Lawyer	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
RELIGION - Functions - Concepts of supernatural - Magic and religion - Religion and society - Religion and marriage - The church, sect, cult - Universal religions - Trends today	The student should be able to perform the following activities: 1. Define religion. 2. List six functions of religion. 3. Name and explain three concepts on the supernatural. 4. In a three page paper, contrast and compare religion with magic, society, marriage, and other institutions. 5. Define the terms cult and sect. 6. Name five universal religions.	CONCEPT: Clergymen have the responsibility of directing their own church. OBJECTIVE: The student should be able to name at least three responsibilities of a clergyman.	CLERGYMAN: 1. The modern clergyman has a variety of duties. The religious leader of today almost has to be involved in modern life. 2. There are more than 300,000 clergymen in the United States. This includes about 6,000 Jewish rabbis, 59,600 Roman Catholic priests, and 240,000 Protestant ministers. 3. Today there is a shortage of clergymen in almost all faiths. This shortage is expected to continue through the 1970's.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students prepare a report on some of the problems faced by minor religious sect or groups in the United States today. 2. Have some students prepare a panel discussion on the church-state relationship in the United States. 3. Have the students read Hartyell Spence's book, The Story of America's Religions. CAREER: 1. Have the students research the history of the religion of their choice, including the duties and responsibilities of the clergy of the particular denomination chosen.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 2381 Four Religions, part I 2382 Four Religions, part II 4090 The Buddhist World 8266 Medieval Times - Role of the Church 4245 The Hindu World CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 67 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: National Center for Church Vocations 1307 South Wabash Avenue Chicago, Illinois 60605 3. Garlandale Audio-Visual Center: magnetic tapes- Mag.T.-293 Protestant Clergymen Mag.T.-293 Rabbis Mag.T.-293 Roman Catholic Priests	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
EDUCATION - Role in society - Control - American education - Higher education - Administration - Segregation - Contemporary methods	The student should be able to perform the following activities: 1. In a two page paper, explain the role of education in society. 2. In a two page paper, compare and contrast the American educational system to those of Great Britain, Germany, Russia, and Japan. 3. List some recent changes in the American educational system.	CONCEPT: School superintendents have the leading role in the administration of a school. OBJECTIVE: The student should be able to name the job responsibilities and duties of a school superintendent.	SCHOOL SUPERINTENDENTS: 1. The kinds of tasks a superintendent performs depend on the size, type, and needs of his community. Some of the main areas of his responsibility are the budget, physical plant, equipment, educational policies, attendance, community relations, etc. 2. At least a master's degree is necessary with certificate for school superintendents. 3. Salaries vary greatly: usually from $12,000 to $50,000.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students make a comparative study of the educational institutions in the United States with those of Great Britain, Germany, Russia, and Japan. 2. Have the students research curriculum changes that have taken place in their school during the last twenty years. Combine the data collected into a report or an article for the school newspaper. 3. Have the students prepare a panel discussion on the following topic: Are Mass Media Meeting Their Educational Responsibilities? CAREER: 1. Ask a school administrator to speak to the class about the work of a superindendent.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 2044 Drop Out 8941 Odyssey of a Dropout 2. Harlandale Audio-Visual Center: record with filmstrip- PR-342 Dropping Out: Road to Nowhere filmstrip- P-61 Illiteracy: a Social Problem 3. San Antonio Public Library: 16mm film- The Dropout CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 293 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Association of School Administration 1201 Sixteenth Street, N.W. Washington, D.C. 20036	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
MINORITIES - Social integration - Segregation - Cultural aspects	The student should be able to perform the following activities: 1. Make a list of the minority groups in his own community. 2. In a two page paper, discuss the special problems faced by American children of racially mixed marriages. 3. Name the three races. 4. Briefly distinguish between race and national origin. 5. Explain the meaning of the term "blood falacy" as it relates to race.	CONCEPT: In recent years, the courts' rulings have greatly changed the idea of segregation. OBJECTIVE: The student should be able to list at least three types of judges. Examples: County Judge, Supreme Court Justice, etc.	JUDGES: 1. It is the responsibility of the judge to apply the law, once the facts of a case have become evident. 2. Federal judges are appointed by the President of the United States, subject to confirmation by the Senate. In some states, the judges are appointed by the governor; in others by the state legislature; in the majority of the states they are elected by the people. 3. All federal and most state judges are chosen from the ranks of the legal profession. 4. Salaries range from as low as $16,000 for some state trial court judges to $62,500 for the Chief Justice of the Supreme Court.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students present a panel discussion on the following question: Is it possible to have separate but equal facilities for minority groups? 2. Have the student make a study of the treatment accorded Americans of Japanese descent during World War II. 3. Prepare a bulletin board display consisting of pictures of outstanding American citizens who are members of minority groups. 4. Have the students present a panel discussion on the following topic: Assimilation and Amalgamation as Possible Steps Toward Solving Minority Problems. CAREER: 1. Ask a judge to speak to the class about his profession.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 8174 History of the Negro in America, part I 8175 History of the Negro in America, part II 8176 History of the Negro in America, part III CAREER: 1. Harlandale Audio-Visual Center: filmstrips- M-3 The Federal Courts T-92 Justice Thurgood Marshall 2. School Counselor or Librarian: SRA Occupational Brief # 395 Dictionary of Occupational Titles Occupational Outlook Handbook 3. Write to: North American Judges Association 1401 Pennsylvania Avenue, N.W. Washington, D.C. 20004	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
INDUSTRIALIZATION - Industrial man - Worker and unions - Technological patterns - Social relations - Group achievement - Classification of workers	The student should be able to perform the following activities: 1. Define industrialization. 2. Write a two page paper on the social impact of the factory system. 3. List some advantages and disadvantages of unions. 4. Briefly explain the classifications of workers.	CONCEPT: Many new jobs were begun due to the creation of labor unions. One of these was the union business agent. OBJECTIVE: The student should be able to list the two primary duties of a union business agent.	UNION BUSINESS AGENT: 1. Union business agents serve on committees to negotiate contracts and head grievance committees. His other duties vary depending on the local area in which he works. Some other duties might be to sign new members, represent the union in community activities, supervise office staff, etc. 2. The requirements vary, but a high school education is usually the minimum. 3. Business agents earn an average of $10,000 or more a year. 4. The employment outlook in this field is fairly good.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students prepare a panel discussion on the social impact of the factory system. 2. Have the students make a bulletin board display depicting industrialization. 3. Have the students research the history of the unions in the United States. CAREER: 1. Ask a local union business agent to speak to the class about his work.	CURRICULUM: CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 393 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Federation of Labor and Congress of Industrial Organizations 815 Sixteenth Street, N.W. Washington, D.C. 20006	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
UREANIZATION - The urban man - Orgin of cities - Modern city - Character-istics - Effects - Urban versus rural - City planning - The future city	The student should be able to perform the following activities: 1. In a one page paper, explain what the term "city" means to him. 2. Briefly explain why the replacement of slum-level dwellings with modern housing often fails to solve the problem of urban blight. 3. Define megalopolis. 4. Compare and contrast an urban and a rural area. 5. List the three aspects of city planning.	CONCEPT: Many modern cities are moving to the city manager type of government. OBJECTIVE: The student should be able to list at least two job responsibilities of a city manager.	CITY MANAGER: 1. City managers develop, administer, and supervise city government in line with policies set by the mayor and the council. They appoint and supervise department heads and other employees; see that all laws and ordinances are enforced; etc. 2. A bachelor's or master's degree in public administration, political science, business administration, of the social sciences is usually required. 3. Salaries vary according to the size of the city. They usually make from $9,000 to $30,000. 4. The employment opportunities in this field are fairly good.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students present panel discussions on the following topics: The Place of the Suburbs in Modern American Life; Slums as a Source of Many Modern American Problems; and Fluoridation of Water: pros and cons. 2. Have the students prepare a report on federal programs for slum clearance and urban renewal. 3. Ask a member of the city planning commission to speak to the class about the objectives and work accomplishments of the group. CAREER: 1. Ask a city manager to speak to the class.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 8895 The Welfare 8324 Portrait of the Inner City 2366 The Challenge of Urban Renewal 2. San Antonio Public Library: 16mm films- Suburban Living: Six Solutions The City and the Future The Green City The Living City CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 96 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: International City Management Association 1140 Connecticut Avenue, N.W. Washington, D.C. 20036	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
POLITICAL SOCIOLOGY - Political man - Concept of freedom - Function of government - The nation - Totalitarianism - Social revolution - Modern government	The student should be able to perform the following activities: 1. Define freedom. 2. List the five functions of government. 3. Briefly explain totalitarianism. 4. Define social revolution.	CONCEPT: Those who study government are called political scientists. OBJECTIVE: The student should be able to explain the type of work done by political scientists.	POLITICAL SCIENTISTS: 1. Political scientists study government-what it is and does, how it operates, and how it affects the governed at every level. They analyze patterns and sources of political power, study domestic and foreign affairs, and collect and analyze facts. 2. A political scientist usually holds a master's degree in political science, international relations, or public administration. A Ph.D. is highly desirable. 3. Most college professors of political science earn from $8,000 to $15,000 + a year. The salary in government jobs is somewhat higher. 4. There are about 15,000 political scientists in the United States.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students prepare a panel discussion on how political events are influenced by social forces. 2. Have the students prepare collages depicting social revolution: mass action directed at the overthrow of a government. 3. Have the students research various interest groups in the United States and how they have affected government. CAREER: 1. Ask a political scientist to visit the class to discuss his work.	CURRICULUM: 1. Education Service Center, Region 20: 16mm film- 8334 Quest for Freedom CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 366 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: American Political Science Association 1527 New Hampshire Avenue, N.W. Washington, D.C. 20036 3. Harlandale Audio-Visual Center: magnetic tape- Mag.T. Political Scientists	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
SOCIAL CHANGE - Definition - Causes - Types - Other factors	The student should be able to perform the following activities: 1. Define social change. 2. List six possible causes of social change. 3. Name two types of social change. 4. In a two page paper, list and explain three additional factors in change.	CONCEPT: Technological change is a possible cause of social change. For instance: the invention of the printing press allows the diffusion of knowledge to more people than ever before, thus altering the way they look at the world. OBJECTIVE: The student should be able to explain the type of work done by **compositors.**	COMPOSITORS: 1. Compositors set type by machine or by hand. By machine, they press keys similar to typewriters; machine duplicate the letters by hand, they select letters needed, assemble in correct order and arrange in galleys and lock into forms. 2. High school graduation plus a four to six year apprenticeship is required. 3. The average salary is $3.77 an hour. 4. The employment opportunities are good.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students prepare a panel discussion on the social impact of the factory system. 2. Have the students research various social changes in the American society. 3. Have the students prepare a bulletin board depicting social changes. CAREER: 1. Ask a compositor to speak to the class.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 8508 The Computer Revolution 8696 Technicians in Our Changing World 8674 What is Automation CAREER: 1. School Counselor or Librarian: SRA Occupational Brief # 90 Dictionary of Occupational Titles Occupational Outlook Handbook 2. Write to: National Council of the Graphic Arts Industry 1411 K Street, N.W. Washington, D.C. 20005	

CURRICULUM CONCEPT	CURRICULUM PERFORMANCE OBJECTIVE	CAREER CONCEPT AND CAREER PERFORMANCE OBJECTIVE	CAREER INFORMATION
CRIME AND DELINQUENCY - Definitions - Characteristics - Police and Crime - Criminality and society - Criminal's world - **Delinquency** - Community reaction	The student should be able to perform the following activities: **1. Define criminal behavior.** **2. List some causes of delinquency.** **3. Name two ways communities respond to crime.** **4. In a three page paper, discuss the causes of crime.**	CONCEPT: **The prevention and control of crime are some of the responsibilities of police officers.** OBJECTIVE: The student should be able to list five duties and responsibilities of a policeman. Examples: patrol streets, investigate crimes, etc.	POLICEMAN: 1. In a small community, policemen handle many police duties. In large police departments, policemen are usually assigned to a specific duty. 2. Usually a high school diploma is required for this job. Local civil service regulations generally govern the appointments of policemen. Emphasis is placed on post-high school training and courses taken in sociology, psychology, minority relations, and law enforcement. 3. In 1970, entrance salaries averaged $8,500. 4. In 1970, there were 330,000 full-time policemen and policewomen in local police departments. The employment outlook in this field is very favorable through the 1970's.

SUGGESTED TEACHING METHODS	AUDIO-VISUAL AND RESOURCE MATERIALS	TEACHER'S COMMENTS
CURRICULUM: 1. Have the students prepare a panel discussion on the following topic: Should Laws and Punishments be Made Uniform Throughout the United States? 2. Have the students gather statistics on the changing crime rate in your community. 3. Have the students prepare a chart of the juvenile court system of the United States. CAREER: 1. Ask a local police officer to speak to the class about his job.	CURRICULUM: 1. Education Service Center, Region 20: 16mm films- 2395 The Story of a Prisoner 2289 Beyond LSD - A Film for Concerned Adults and Teenagers 8187 Hooked 2339 LSD - Insight on Insanity 2340 Marijuana 2. San Antonio Public Library: 16mm films- Children in Trouble Who's Delinquent CAREER: 1. Harlandale Audio-Visual Center: filmstrip- T-82 Police and Police Protection cassette tape- Ca.T.-29 Policeman 2. San Antonio Public Library: 16mm film- The Policeman and His Job 3. Harlandale Occupational Orientation Office: tape- Your Future as a Policeman and Policewoman 4. School Counselor or Librarian: SRA Occupational Briefs # 54 and # 107 Dictionary of Occupational Titles Occupational Outlook Handbook	

APPENDIX

SUGGESTIONS FOR TEACHING-LEARNING ACTIVITIES

Introduction to Vocations should be a lively, student-centered and activity-filled course. Lecture sessions should be held to a minimum.

Below are listed ideas which might be helpful in planning for varied types of teaching-learning situations. Add to these as the year progresses.

1. Interviews
2. Skits
3. Theme writing
4. Bulletin Boards
5. Debates
6. General Discussion
7. Small group discussion
8. Committee work
9. Individual or group study
10. Oral reports
11. Newspaper articles
12. Field trips
13. Movies
14. Filmstrips
15. Slides
16. Overhead and/or opaque projections
17. Collect want ads
18. Write want ads
19. Employment Security Commission job lists
20. Exhibits
21. Collect materials
22. Observation
23. Role playing
24. Resource person
25. Brainstorming
26. Games
27. Research projects
28. Demonstrations
29. Prepare lists
30. Radio and Television Programs
31. Projects
32. Illustrations
33. Chalktalks
34. Panel discussions
35. Make files
36. Tests
37. Problem solving
38. Prepare charts and graphs
39. Window displays
40. Write letters
41. Assigned reading
42. Thought problems
43. Prepare speeches
44. Notebooks
45. Scrapbooks
46. Lecture

(From Introduction to Vocations, Teacher's Guide, Course Number 799, July, 1965, prepared by H. E. Beam and J. R. Clary, North Carolina)

CAREER DEVELOPMENT CONCEPTS

Work has dignity.

Individuals work to meet personal and social needs.

People work for various rewards or satisfactions.

School is part of the preparation for a career.

Individuals need special training for some careers.

Individuals are people, thing or idea oriented.

In many careers cooperation among workers is essential.

Some workers produce goods; others produce services.

Specialization leads to interdependency among people.

Positions are related within job families.

Careers are grouped by job families.

Supply and demand help determine career choice.

Career choice affects the individual's total life.

Geographical location determines kinds of work found therein.

Technological and sociological changes eliminate and create jobs.

Individuals need a good general education as preparation for a changing world.

School subjects have significance for career exploration.

Leisure time activities affect career choice.

Career choice is a developmental process.

Individuals differ in their abilities, interests, attitudes, and values.

Exploratory work experience helps improve knowledge about careers.

Interaction with workers help improve knowledge about careers.

Observation of people at work helps improve knowledge about careers.

Workers of the future may have to retrain two or more times during a lifetime.

Information about careers is needed by all individuals.

Individuals live in a particular geographical location due to the nature of their work.

Information about abilities, aptitudes, and achievement, and acceptance of this information help individuals make more realistic career decisions.

Individuals' socio-economic backgrounds affect career choices.

A satisfying career contributes to mental health.

Relating attitudes and interests to characteristics of careers improves probability of satisfaction with career choice.

Relating career possibilities to school subjects helps improve student motivation.

The individual's attitudes affect success in a career.

Individuals are attracted to careers due to the relationship of the characteristics of the careers to the life styles of workers.

OCCUPATIONAL CLUSTERS

Business and Office Occupations

Marketing and Distribution

Communications and Media Occupations

Construction

Manufacturing

Transportation

Agri-Business and Natural Resources

Marine Science

Environmental Control Occupations

Public Services

Health Occupations

Hospitality and Recreation

Personal Services

Fine Arts and Humanities

Consumer and Homemaking Related

GLOSSARY OF SIGNIFICANT TERMS AND NAMES IN SOCIOLOGY

1. Acculturation
2. Achieved Status
3. Acting Crowd
4. Adjustment
5. Affective Commitment
6. Age Ratio
7. Agriculture
8. Animatism
9. Animism
10. Anonymity
11. Apartheid
12. Ascribed Status
13. Assimilation
14. Association
15. Association Group
16. Associational Norms
17. Bandwagon
18. Belief System
19. Biological Factor
20. Bureaucracy
21. Compaign
22. Card-Stacking
23. Caste
24. Casual Crowd
25. Causality
26. Centralization
27. Charles Cooley
28. Checks and Balances
29. Church
30. Citizen
31. City
32. Class
33. Class Conflict
34. Collective Bargaining
35. College
36. Community Response
37. Competition
38. Concentration
39. Concentric Zone Theory
40. Conflict
41. Conformity
42. Conjugal
43. Consanguine
44. Conservation
45. Continuing Socialization
46. Contract.
47. Control
48. Cooperation
49. Counter Propaganda
50. Craft Technology
51. Craft Union
52. Crescive Institution
53. Crime
54. Crowd
55. Cult
56. Cultural Anthropology
57. Cultural Complex
58. Cultural Conflict
59. Cultural Lag
60. Cultural Pluralism
61. Cultural Trait
62. Culture
63. De Facto Segregation
64. Decentralization
65. Delinquency
66. Demographic
67. Demography
68. Displacement
69. Divorce
70. E.B. Tylor
71. Ecological Determinism
72. Ecology
73. Economics
74. Education
75. Emigration
76. Emile Durkheim
77. Enacted Institution
78. Endogamy
79. Equalitarianism
80. Estates
81. Ethnic Subcultures
82. Ethnocentrism
83. Ethnography
84. Ethnology
85. Ethos
86. Exogamy
87. Expressive Crowd
88. Face-to-Face Groups
89. Fads
90. Family
91. Fealty
92. Federal Government
93. Ferdinand Tonnies
94. Fertility
95. Feudalism
96. Folkways
97. Forced Migration
98. Formal Structure
99. Freedom
100. Functional Analysis
101. Gang
102. Ghettos
103. Gini
104. Glittering Generality
105. Government
106. Group
107. Herbert Spencer
108. Heterogeneity
109. Human Geography
110. "Ideal-Self"
111. Ideas
112. Identification
113. Immigration
114. Individualism
115. Industrial Suburbs
116. Industrial Union
117. Industrialization
118. Informal Education
119. Informal Structure
120. Institution

121. Integration
122. Interest Groups
123. Invasion
124. Isolation
125. Key States
126. Kinship
127. Language
128. Laws
129. Leadership
130. Lester Ward
131. Life Expectancy
132. "Life-Styles"
133. Linguistics
134. Long Range Change
135. "Looking-Glass Self"
136. Malthus
137. Mana
138. Marriage
139. Material Culture
140. Material Success
141. Matriarchal
142. Matrilineal
143. Matrilocal
144. Max Weber
145. Megalopolis
146. Metropolitan Area
147. Migration
148. Monogamy
149. Monotheism
150. Morbidity Rate
151. Mores
152. Mortality Rate
153. Multiple Nuclei Theory
154. Nationalism
155. Neighborhood
156. Non-Material Culture
157. Occupational Subculture
158. Objective Approach
159. Panic
160. Pantheism
161. Patriarchal
162. Patrilineal
163. Patrilocal
164. Patriotism
165. Peer Groups
166. Political Party
167. Political Science
168. Polls
169. Polygamy
170. Polytheism
171. Pressure Groups
172. Prestige
173. Primary Group
174. Primary Relations
175. Profane
176. Propaganda
177. Prophet
178. Public
179. Public Opinion
180. Rate
181. Reference Group
182. Regional Community
183. Regional Subcultures
184. Renewal
185. Reproduction
186. Reputational Approach
187. Resocialization
188. Riot
189. Role
190. Romantic Love
191. Rumor
192. Rural Sociology
193. Sacred
194. Sadler
195. Sect
196. Sector Theory
197. Secondary Groups
198. Secondary Relations
199. Secularism
200. Security
201. Segregation
202. Selection of Mate
203. Sex Ratio
204. Short Range Change
205. Social Change
206. Social Class
207. Social Distance
208. Social Ethics
209. Social Groups
210. Social Mobility
211. Social Movements
212. Social Order
213. Social Psychology
214. Social Relations
215. Social Revolution
216. Socialization
217. Societal Group
218. Socio-Cultural Drift
219. Sociology
220. State College
221. Statistical Group
222. Status
223. Status Groups
224. "Status Panic"
225. Status Symbols
226. Status Transfer
227. Stratification
228. Structured Conflict
229. Subjective Approach
230. Symbol
231. Taboo
232. Technical School
233. Technology
234. Testimonial
235. Unemployment
236. Union
237. Urban Sociology
238. Urbanization
239. W.L. Warner
240. Wage Earner
241. William Sumner

ORGANIZATIONS FOR CAREER INFORMATION

1. American Anthropological Association
   3700 Massachusetts Avenue, N.W.
   Washington, D.C. 20016

2. American Association of Junior Colleges
   1315 Sixteenth Street, N.W.
   Washington, D.C. 20036

3. American Association of Physical Anthropologists
   Francis E. Johnson; Secretary-Treasurer
   c/o University of Texas
   Box 8179, University Station
   Austin, Texas 78712

4. American Association of School Administrators
   1201 Sixteenth Street, N.W.
   Washington, D.C. 20036

5. American Association of University Professors
   1 Dupont Circle
   Washington, D.C. 20036

6. American Bar Association
   1155 East 60th Street
   Chicago, Illinois 60637

7. American Council on Education
   1 Dupont Circle
   Washington, D.C. 20036

8. American Federation of Labor and Congress of Industrial Organizations
   815 Sixteenth Street, N.W.
   Washington, D.C. 20006

9. American Federation of Teachers
   1012 Fourteenth Street, N.W.
   Washington, D.C. 20005

10. American Historical Association
    400 A Street, S.E.
    Washington, D.C. 20003

11. American Institute of Planners
    917 Fifteenth Street, N.W.
    Washington, D.C. 20005

12. American Political Science Association
    1527 New Hampshire Avenue, N.W.
    Washington, D.C. 20036

13. American Public Welfare Association
    1313 East 60th Street
    Chicago, Illinois 60637

14. American Society for Public Administration
    1225 Connecticut Avenue, N.W.
    Washington, D.C. 20036

15. American Society of Planning Officials
    1313 East 60th Street
    Chicago, Illinois 60637

16. American Sociological Association
    1722 N Street, N.W.
    Washington, D.C. 20036

17. Association of American Law Schools
    1521 New Hampshire Avenue, N.W.
    Washington, D.C. 20036

18. B'nai B'rith Vocational Service
    1640 Rhode Island Avenue N.W.
    Washington, D.C. 20036

19. Education Council of the Graphic Arts Industry
    1411 K Street, N.W.
    Washington, D.C. 20005

20. Fashion Group, The
9 Rockefeller Plaza
New York, New York 10020

21. International Association of Chiefs of Police
1319 Eighteenth Street, N.W.
Washington, D.C. 20036

22. International City Management Association
1140 Connecticut Avenue, N.W.
Washington, D.C. 20036

23. International Printing Pressmen and Assistants' Union of North America
1730 Rhode Island Avenue, N.W.
Washington, D.C. 20036

24. International Typographical Union
P.O. Box 157
Colorado Springs, Colorado 80901

25. National Association of Professional Baseball Leagues
720 East Broad Street
Columbus, Ohio 43215

26. National Baseball Association
2 Pennsylvania Plaza
New York, New York 10001

27. National Center for Church Vocations
1307 South Wabash Avenue
Chicago, Illinois 60605

28. National Commission for Social Work Careers
2 Park Avenue
New York, New York 10016

29. National Conference of Police Associations
1609 Kenny Drive
Falls Church, Virginia 20040

30. National Council of the Churches of Christ in the U.S.A.
Department of Ministry
475 Riverside Drive
New York, New York 10027

31. National Education Association
1201 Sixteenth Street, N.W.
Washington, D.C. 20036

32. National Football League
410 Park Avenue
New York, New York 10022

33. National Municipal League
47 East 68th Street
New York, New York 10021

34. National School Boards Association
1233 Central Street
Evanston, Illinois 60201

35. New York Fashion Designers
1457 Broadway
New York, New York 10036

36. North American Judges Association
1401 Pennsylvania Avenue, N.W.
Washington, D.C. 20004

37. Organization of American Historians
c/o David E. Miller
Department of History
University of Utah
Salt Lake City, Utah 84112

38. Rural Sociological Society
c/o Department of Rural Sociology
South Dakota State University
Brookings, South Dakota 57006

39. Serra International
22 West Monroe Street
Chicago, Illinois 60603

40. Society of American Archivists
    Univeristy of Michigan
    Rackham Building
    Ann Arbor, Michigan 48104

41. Society for American Archaeology
    3700 Massachusetts Avenue, N.W.
    Washington, D.C. 20016

42. U.S. Department of Health, Education, and Welfare
    Office of Educarion
    Washington, D.C. 20202

PERIODICALS FOR CAREER INFORMATION

1. AFL - CIO News
   815 Sixteenth Street, N.W.
   Washington, D.C. 20006

2. American Antiquity
   3700 Massachusetts Avenue, N.W.
   Washington, D.C. 20016

3. American Archivist, The
   The National Archives
   Washington, D.C. 20408

4. American Association of University Professors Bulletin
   1 Dupont Circle
   Washington, D.C. 20036

5. American Bar Association Journal
   1155 East 60th Street
   Chicago, Illinois 60637

6. American Federationist
   815 Sixteenth Street, N.W.
   Washington, D.C. 20006

7. American Heritage
   551 Fifth Avenue
   New York, New York 10017

8. American Historical Review
   866 Third Avenue
   New York, New York 10022

9. American Journal of Archaeology
   260 West Broadway
   New York, New York 10013

10. American Journal of Sociology
    University of Chicago Press
    5750 Ellis Avenue
    Chicago, Illinois 60637

12. American Political Science Review
    1527 New Hampshire Avenue, N.W.
    Washington, D.C. 20036

12. American Psychologist
    1200 Seventeenth Street, N.W.
    Washington, D.C. 20036

14. American School Board Journal, The
    1233 Central Street
    Evanston, Illinois 60201

15. American Sociological Review
    1722 N Street, N.W.
    Washington, D.C. 20036

16. American Teacher
    1012 Fourteenth Street, N.W.
    Washington, D.C. 20005

17. Anthropological Quarterly
    620 Michigan Avenue, N.E.
    Washington, D.C. 20017

18. Apparel Manufacturer
    111 Fourth Avenue
    New York, New York 10003

19. ASPO Newsletter
    1313 East 60th Street
    Chicago, Illinois 60637

20. Current History
    1822 Ludlow Street
    Philadelphia, Pennsylvania 19103

21. Future Teachers of America Newsletter
    1201 Sixteenth Street, N.W.
    Washington, D.C. 20036

22. Grade Teacher
23 Leroy Avenue
Darien, Connecticut 06820

23. Graphic Arts Monthly
7373 North Lincoln Avenue
Lincolnwood, Illinois 60646

24. Inland Painter - American Lithographer
300 West Adams Street
Chicago, Illinois 60606

25. National Civic Review
47 East 68th Street
New York, New York 10021

26. National Council of the Churches of Christ in the U.S.A.
Department of Ministry
475 Riverside Drive
New York, New York 10027

27. National Sheriff
714 Transportation Building
Washington, D.C. 20006

28. Nation's Schools, The
1050 Merchandise Mart Plaza
Chicago, Illinois 60654

29. NEA Journal
1201 Sixteenth Street, N.W.
Washington, D.C. 20036

30. Police Chief, The
1319 Eighteenth Street
Washington, D.C. 20036

31. Political Science
1427 New Hampshire Avenue, N.W.
Washington, D.C. 20036

32. Public Management
1140 Connceticut Avenue, N.W.
Washington, D.C. 20036

33. Public Welfare
1313 East 60th Street
Chicago, Illinois 60637

34. School Management
22 West Putnam Avenue
Greenwhich, Connecticut 06830

35. Serra International
22 West Monroe Street
Chicago, Illinois 60603

36. Social Work
2 Park Avenue
New York, New York 10016

37. Sporting News
1212 North Lindbergh Boulevard
St. Louis, Missouri 63132

38. Sports Illustrated
9 Rockefeller Plaza
New York, New York 10020

39. Typographical Journal
P.O. Box 2341
Colorado Springs, Colorado 80901

40. Western Apparel Industry
112 West Ninth Street
Los Angeles, California 90015

41. Women's Wear Daily
7 East 12th Street
New York, New York 10003

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Career In Psychology, A. Washington: American Psychological Assn., 1970.

Career in Sociology, A. (Free.) Washington: American Sociological Society.

Career in Typography Today, A. Washington: International Typographic Composition Assn., 1967.

Careers in City Management. (Booklet; 35¢.) Washington: B'nai B'rith Vocational Service.

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Careers in History with Historical Organizations. (Brochure; free.) Nashville, Tenn.: American Assn. for State and Local History.

Careers in Law. (Pamphlet; 25¢.) Chicago: American Bar Assn., 1962.

Careers in the Rabbinate. Washington: B'nai B'rith Vocational Service, 1969.

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Questions and Answers. (Booklet; 10¢.) Washington: International City Management Assn., 1957.

Real World of the Beginning Teacher. Washington: National Education Assn., 1966.

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AUDIO-VISUAL SOURCE INFORMATION

TITLE	TYPE	SOURCE	TIME	COLOR OR B/W
A Family Affair	16mm	Mental Health Film Board	31 min.	B/W
Americans All	16mm	MOT Forum Education	16 min.	B/W
Answering the Child's Why	16mm	Encyclopedia Britannica Educational Corp.	13 min.	B/W
Anthropologists	Mag.T.	Brown & Associates		
Belonging to the Group	16mm	Encyclopedia Britannica Educational Corp.	16 min.	B/W
Beyond LSD - A Film for Concerned Adults and Teenagers	16mm	Film Associates of California	25 min.	C
Challenge of Urban Renewal, The	16mm	Films, Inc.	29 min.	C
Children on the Move	16mm	Coronet Films	22 min.	C
Children's Emotions	16mm	McGraw-Hill Textfilms	22 min.	B/W
Chosing for Happiness	16mm	McGraw-Hill Textfilms	14 min.	B/W
City and the Future, The	16mm	Sterling Educational Films	28 min.	B/W
Computer Revolution, The	16mm	Films Associates of California	24 min.	C
Conserving Our Forests Today	16mm	Coronet Films	11 min.	C
Conserving Our Mineral Resources	16mm	Coronet Films	11 min.	C
Conserving Our Water Resources	16mm	Coronet Films	11 min.	C
Courtship and Marriage	16mm	McGraw-Hill Textfilms	60 min.	B/W
Drop Out	16mm	McGraw-Hill Textfilms	27 min.	B/W
Dropout, The	16mm	Davies	11 min.	C

AUDIO-VISUAL SOURCE INFORMATION

TITLE	TYPE	SOURCE	TIME	COLOR OR B/W
Early Social Behavior	16mm	Encyclopedia Britannica Educational Corp.	11 min.	B/W
Evolution and Extinction	Rec/FS	Singer/SVE		C
Facing Reality	16mm	McGraw-Hill Textfilms	12 min.	B/W
Family Life	16mm	Coronet Films	10 min.	B/W
Federal Courts, The	FS	Encyclopedia Britannica Educational Corp.		C
Feeling of Hostility	16mm	National Film Board of Canada	27 min.	B/W
Golf Professional	Cas.T.	Educational Progress Corp.		
Green City, The	16mm	Stuart Finley	23 min.	C
High School Teacher	Cas.T.	Educational Progress Corp.		
Historians	Mag.T.	Brown & Associates		
Hooked	16mm	Churchill Films	20 min.	B/W
How to Solve a Problem	16mm	Film Association of California	12 min.	C
Improve Your Personality	16mm	Coronet Films	10 min.	B/W
Individual Differences	16mm	McGraw-Hill Textfilms	23 min.	B/W
Justice Thurgood Marshall	FS	Bailey Film Associates		C
Land of Immigrants	16mm	Churchill Films	16 min.	C
Lawyer	Cas.T.	Educational Progress Corp.		
Life with Baby	16mm	MOT Forum Education	18 min.	B/W
Living City, The	16mm	Encyclopedia Britannica Educational Corp.	24 min.	B/W

AUDIO-VISUAL SOURCE INFORMATION

TITLE	TYPE	SOURCE	TIME	COLOR OR B/W
LSD - Insight on Insanity	16mm	Bailey Film Associates	18 min.	C
Man on the Land	16mm	Oil Industry Information Committee	16 min.	C
Marijuana	16mm	Bailey Film Associates	34 min.	C
Marriage Today	16mm	McGraw-Hill Textfilms	22 min.	B/W
Merry-Go-Round	16mm	McGraw-Hill Textfilms	23 min.	B/W
Odyssey of a Dropout	16mm	Coronet Films	19 min.	B/W
Parents Are People, Too	16mm	McGraw-Hill Textfilms	15 min.	B/W
Persistent Seed, The	16mm	Henk Newenhouse, Inc.	14 min.	C
Pesticides	Rec/FS	Singer/SVE		C
Phoebe - Story of a Premarital Pregnancy	16mm	McGraw-Hill Textfilms	29 min.	B/W
Police and Police Protection	FS	Eye Gate House		C
Policeman	Cas.T.	Brown & Associates		
Political Scientists	Mag.T.	Brown & Associates		
Pollution	Rec/FS	Singer/SVE		C
Population Ecology	16mm	Encyclopedia Britannica Educational Corp.	19 min.	B/W
Population Ecology	16mm	McGraw-Hill Textfilms	28 min.	
Population Patterns in the United States	16mm	Coronet Films	11 min.	C
Population Statistics	Rec/FS	Singer/SVE		C
Population Trends	Rec/FS	Singer/SVE		C

AUDIO-VISUAL SOURCE INFORMATION

TITLE	TYPE	SOURCE	TIME	COLOR OR B/W
Portrait of the Inner City	16mm	McGraw-Hill Textfilms	15 min.	B/W
Prehistoric Images - The First Art of Man	16mm	Brandon Films	17 min.	C
Professor	Cas.T.	Educational Progress Corp.		
Protestant Clergymen	Mag.T.	Brown & Associates		
Psychological Differences Between the Sexes	16mm	McGraw-Hill Textfilms	14 min.	C
Public Opinion	16mm	Encyclopedia Britannica Educational Corp.	11 min.	B/W
Rabbis	Mag.T.	Brown & Associates		
Roman Catholic Priests	Mag.T.	Brown & Associates		
Roots of Happiness	16mm	International Film Board	25 min.	B/W
Shyness	16mm	National Film Board of Canada	23 min.	B/W
Social Service and the Social Worker	FS	Eye Gate House		C
Social Worker	Mag.T.	Brown & Associates		
Social Worker	Cas.T.	Educational Progress Corp.		
Sociologists	Mag.T.	Brown & Associates		
Some Ecological Consideration	Rec/FS	Singer/SVE		C
Standing Room Only	16mm	McGraw-Hill Textfilms	25 min.	C
Story of a Prisoner, The	16mm	Stanton Films	26 min.	B/W
Suburban Living: Six Solutions	16mm	International Film Board	59 min.	B/W
Technicians in Our Changing World	16mm	Stanton Films	14 min.	C

AUDIO-VISUAL SOURCE INFORMATION

TITLE	TYPE	SOURCE	TIME	COLOR OR B/W
To Clear the Air	16mm	Universal Education Visual Arts	20 min.	C
Tomorrow Will Not Wait	16mm	United States Government	15 min.	C
VD - See Your Doctor	16mm	Sterling Educational Films	22 min.	C
Welfare, The	16mm	University of California (Berkley)	17 min.	B/W
What Color Are You?	16mm	Encyclopedia Britannica Educational Corp.	15 min.	C
What is Automation	16mm	Film Associates of California	14 min.	C
What is Ecology	16mm	Encyclopedia Britannica Educational Corp.	11 min.	B/W
Who's Delinquent?	16mm	McGraw-Hill Textfilms	16 min.	B/W
You and Your Family	16mm	Association Films	8 min.	B/W
Your Future as a Policeman and Policewoman	Mag.T.	Guidance Associates		

KEY

16mm ---------- 16mm film
Mag.T. ---------- magnetic tape
Cas.T. ---------- cassette tape
Rec/FS ---------- record with filmstrip
FS ---------- filmstrip

THESE PAGES WERE [redacted] MISSING FROM THE DOCUMENT THAT WAS SUBMITTED TO ERIC DOCUMENT REPRODUCTION SERVICE.

23. Actual Mechanical Advantage

$$AMA = \frac{Fr}{Fe}$$

AMA is actural mechanical advantage; Fr is resistance force; Fe is effort force.

24. Efficiency

$$\text{Efficiency} = \frac{AMA}{IMA} \times 100\%$$

or $$\text{Efficiency} = \frac{W_{\text{output}}}{W_{\text{input}}} \times 100\%$$

AMA is actural mechanical advantage; IMA is ideal mechanical advantage; W_{output} is work output; W_{input} is work input.

25. Lever

$$IMA = \frac{l_e}{l_r}$$

IMA is ideal mechanical advantage; l_e is length of effort arm; l_r is length of resistance arm.

26. Pulley

$$IMA = n$$

IMA is ideal mechanical advantage; n is number of strands supporting movable block.

27. Wheel and Axle

$$IMA = \frac{C}{c} = \frac{D}{d} = \frac{R}{r}$$

IMA is ideal mechanical advantage; C, D, and R are circumference, diameter, and radius, respectively, of wheel; c, d, and r are circumference, diameter, and radius, respectively, of axle.

28. Inclined Plane

1. When Force Acts Parallel to Plane

$$IMA = \frac{l}{h}$$

IMA is ideal mechanical advantage; l is length of plane; h is height of plane.

2. When Force Acts Parallel to Base of Plane

$$IMA = \frac{b}{h}$$

IMA is ideal mechanical advantage; b is base of plane; h is height of plane.

29. Screw

$$IMA = \frac{2\pi r}{d}$$

IMA is ideal mechanical advantage; r is length of arm on which effort force acts; d is pitch of screw.

30. Density

$$D_m = \frac{m}{V} \text{ or } D_w = \frac{w}{V}$$

D_m is mass density; m is mass; V is volume; D_w is weight density; w is weight.

31. Hooke's Law

$$Y = \frac{Fl}{\Delta l A}$$

Y is elastic modulus; F is applied stress; l is original length; Δl is strain; A is cross-sectional area.

32. Pressure

$$p = \frac{F}{A}$$

p is pressure; F is force; A is area.

33. Liquid Pressure

$$p = hD_w$$

p is pressure; h is depth; D_w is weight density.

34. Hydraulic Press

$$IMA = \frac{A_r}{A_e} = \frac{d_r 2}{d_e 2} = \frac{r_R 2}{r_E 2}$$

IMA is ideal mechanical advantage; A_r, d_r, and r_R are area, diameter, and radius, respectively, of the resistance piston; A_e, d_e, and r_E are area, diameter, and radius, respectively, of the effort piston.

35. Archimedes' Principle - Floating Solid

$$\frac{D_s}{Dl} = \frac{h_{sub}}{h_s}$$

D_s is density of solid; Dl is density of liquid; h_{sub} is depth of soldi submerged; h_s is total depth of solid.

36. Boyle's Law

$$pV = p'V'$$

p is original pressure; V is original volume; p' is new pressure; V' is new volume.

37. Bernoulli's Principle

$$p + \frac{K.E.}{V} = k$$

p is pressure; K.E. is kinetic energy; V is volume; k is a constant.

38. Temperature Conversion

1. Fahrenheit to Centigrade

$$Tc = \frac{5}{9}(Tc - 32^o)$$

Tc is Centigrade temperature; Tf is Fahreheit temperature.

2. Centigrade to Fahrenheit

$$Tf = \frac{9}{5} Tc = 32^o$$

Tf is Fahrenheit temperature; Tc is Centigrade temperature.

39. Linear Expansion

$$\Delta l = \alpha l (T - T_o)$$

l is increase in length; is coefficient of linear expansion; l is original length; T is final temperature; T_o is original temperature.

40. Volume Expansion

$$\Delta V = \beta V (T - T_o)$$

ΔV is increase in volume; β is coefficient of volume expansion; V is original volume; T is final temperature; T_o is original temperature.

SOME USEFUL FORMULAS

41. Kelvin Temperature

$$T_k = T_c + 273^\circ$$

T_k is Kelvin temperature; T_c is Centigrade temperature.

42. Charles' Law

$$\frac{V}{Tk} = \frac{V'}{Tk'}$$

V is original volume; Tk is original Kelvin temperature; V' is new volume; Tk' is new Kelvin temperature.

43. Boyle's and Charles' Laws Combined

$$\frac{pV}{Tk} = \frac{p'V'}{Tk'}$$

p, V, and Tk are original pressure, volume, and Kelvin temperature, respectively; p', V', and Tk' are new pressure, volumen, and Kelvin temperature, respectively.

44. Mechanical Equivalent of Heat

$$W = JQ$$

W is work; J is mechanical equivalent of heat; Q is heat.

45. Heat Engine Efficiency

$$\text{Efficiency} = \frac{T_{k1} - T_{k2}}{T_{k1}} \times 100\%$$

T_{k1} is input Kelvin temperature; T_{k2} is exhaust Kelvin temperature.

46. Wave Formula

$$v = f\lambda$$

v is wave speed; f is frequency; λ is wave length.

47. Focal Length of Mirrors and Lenses

$$\frac{1}{f} = \frac{1}{D_o} + \frac{1}{D_i}$$

f is focal length; D_o is object distance; D_i is image distance.

48. Index of Refraction

$$n = \frac{\sin i}{\sin r}$$

n is index of refraction; i is the angle of incidence; r is the angle of refraction.

49. Illumination

1. Uniformly Illuminated Surface

$$E = \frac{F}{A}$$

E is illumination; F is luminous flux; A is area uniformly illuminated.

ADDITIONAL SOURCES FOR CAREER INFORMATION

1. Air-Conditioning and Refrigeration Institute
   1815 North Fort Myer Drive
   Arlington, Virginia 22209

2. Alexander Graham Bell Association for the Deaf, Inc.
   1537 Thirty-Fifth Street, N.W.
   Washington, D.C. 20007

3. Amalgamated Transit Union
   5025 Wisconsin Avenue, N.W.
   Washington, D.C. 20016

4. American Association for the Advancement of Science
   Section D
   1515 Massachusetts Avenue, N.W.
   Washington, D.C. 20005

5. American Chemical Society
   1155 Sixteenth Street, N.W.
   Washington, D.C. 20006

6. American Federation of Television and Radio Artists
   724 Fifth Avenue
   New York, New York 10019

7. American Geophysical Union
   2100 Pennsylvania Avenue, N.W.
   Washington, D.C. 20037

8. American Helicopter Society
   141 East 44th Street
   New York, New York 10017

9. American Institute of Architects
   1735 New York Avenue, N.W.
   Washington, D.C. 20006

10. American Institute of Chemical Engineers
    345 East 47th Street
    New York, New York 10017

11. American Institute of Industrial Engineers
    345 East 47th Street
    New York, New York 10017

12. American Medical Association
    535 North Dearborn Street
    Chicago, Illinois 60610

13. American Music Conference
    332 South Michigan Avenue
    Chicago, Illinois 60610

14. American Newspaper Guild
    1126 Sixteenth Street, N.W.
    Washington, D.C. 20036

15. American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc.
    345 East 47th Street
    New York, New York 10017

16. American Society of Mechanical Engineers
    United Engineering Centers
    345 East 47th Street
    New York, New York 10017

17. American Sociological Association
    1001 Connecticut Avenue, N.W.
    Washington, D.C. 20036

ADDITIONAL SOURCES FOR CAREER INFORMATION

18. American Trucking Associations, Inc.
1616 P Street
Washington, D.C. 20036

19. Archaeological Institute of America
100 Washington Square East
New York, New York 10003

20. Automotive Service Industry Association
230 North Michigan Avenue
Chicago, Illinois 60601

21. Business Equipment Manufacturers Association
235 East 42nd Street
New York, New York 10017

22. Electronic Industries Association
2001 Eye Street, N.W.
Washington, D.C. 20006

23. Engineers' Council for Professional Development
345 East 47th Street
New York, New York 10017

24. Farm and Industrial Equipment Institute
410 North Michigan Avenue
Chicago, Illinois 60611

25. Farm Equipment Manufacturers Association
230 South Bemiston Avenue
St. Louis, Missouri 63105

26. Flight Engineers' International Association
905 Sixteenth Street, N.W.
Washington, D.C. 20006

27. Gas Appliance Manufacturers Association
60 East 42nd Street
New York, New York 10017

28. Helicopter Association of America
825 Dupont Circle Building
Washington, D.C. 20036

29. Independent Garage Owners of America
624 South Michigan Avenue
Chicago, Illinois 60605

30. Independent Motion Picture Producer's Association
1765 Sycamore Avenue
Hollywood, California 90028

31. Independent Union of Plant Protection Employees
230 North Street
Pittsfield, Massachusetts 01201

32. International Alliance of Theatrical Stage Employees and Moving Picture Machine Operators of the Unites States and Canada
1270 Avenue of the Americas, Suite 1900
New York, New York 10020

33. International Association of Fire Fighters (AFL-CIO)
905 Sixteenth Street, N.W.
Washington, D.C. 20006

34. International Material Management Society, The
2200 Fuller Road
Ann Arbor, Michigan 48105

ADDITIONAL SOURCES FOR CAREER INFORMATION

35. Material Handling Equipment Distributers Association
20 North Wacker Drive
Chicago, Illinois 60606

36. Mathematical Association of America
1225 Connecticut Avenue, N.W.
Washington, D.C. 20036

37. Music Educators National Conference
1201 Sixteenth Street
Washington, D.C. 20036

38. National Aerospace Services Association
1725 De Sales Street, N.W.
Washington, D.C. 20036

39. National Alliance of Television and Electronic Service Association
5908 South Troy Street
Chicago, Illinois 60629

40. National Appliance and Radio-TV Dealers Association
318 West Randolph Street
Chicago, Illinois 60606

41. National Architectural Accrediting Board
521 Eighteenth Street, N.W.
Washington, D.C. 20006

42. National Association of Broadcast Employees and Technicians
80 East Jackson Boulevard
Chicago, Illinois 60604

43. National Association of Broadcasters
1771 N Street, N.W.
Washington, D.C. 20036

44. National Association of Hearing and Speech Agencies
919 Eighteenth Street, N.W.
Washington, D.C. 20006

45. National Association of Home Builders
1625 L Street, N.W.
Washington, D.C. 20036

46. National Association of Motor Bus Owners
839 Seventeenth Street, N.W.
Washington, D.C. 20006

47. National Association of Power Engineers, Inc.
176 West Adams Street
Chicago, Illinois 60603

48. National Association of Schools of Music
1501 New Hanpshire Avenue, N.W.
Washington, D.C. 20036

49. National Council on Crime and Delinquency
44 East 23rd Street
New York, New York 10010

50. National Farm and Power Equipment Dealers Association
2340 Hampton Avenue
St. Louis, Missouri 63139

ADDITIONAL SOURCES FOR CAREER INFORMATION

51. National Fire Protection Association
60 Batterymarch Street
Boston, Massachusetts 02110

52. National Machine Tool Builders' Association
2139 Wisconsin Avenue, N.W.
Washington, D.C. 20007

53. National Music Council
2109 Broadway
New York, New York 10023

54. National Office Machine Dealers Association
2510 Dempster
Des Plaines, Illinois 60016

55. National Piano Manufacturers Association of America, Inc.
435 North Michigan Avenue
Chicago, Illinois 60611

56. National Press Photographers Association
P. O. Box 1146
Durham, North Carolina 27702

57. National Society of Professional Engineers
2029 K Street, N.W.
Washington, D.C. 20006

58. National Warm Air Heating and Air Conditioning Association
640 Engineers Building
Cleveland, Ohio 44114

59. Oak Ridge Institute of Nuclear Studies
P. O. Box 117
Oak Ridge, Tennessee 37831

60. Piano Technicians Guild
512 First Avenue
Seattle, Washington 98109

61. Pile Drivers, Bridge, Wharf, Dock Carpenters, Welders, Divers, Rig Builders, Drillers and Rotary Helpers Union
c/o United Brotherhood of Carpenters and Joiners of America
101 Constitution Avenue, N.W.
Washington, D.C. 20001

62. Scientific Apparatus Makers Association
1140 Connecticut Avenue, N.W.
Washington, D.C. 20036

63. Screen Actors Guild
7750 Sunset Boulevard
Hollywood, California 90046

64. Society for American Archaeology
3700 Massachusetts Avenue, N.W.
Washington, D.C. 20016

65. Society for General Systems Research
2100 Pennsylvania Avenue, N.W.
Washington, D.C. 20006

66. Society for Industrial and Applied Mathematics
33 South 17th Street
Philadelphia, Pennsylvania 19103

67. Society of American Registered Architects
182 Jefferson Place, N.W.
Washington, D.C. 20036

ADDITIONAL SOURCES FOR CAREER INFORMATION

68. Society of Exploration Geophysicists
Box 3098
Tulsa, Oklahoma 74101

69. Society of Illustrators
129 East 63rd Street
New York, New York 10012

70. Society of Naval Architects and Marine Engineers
74 Trinity Place
New York, New York 10006

71. Transport Workers Union of America
1980 Broadway
New York, New York 10025

72. United Plant Guard Workers of America
14214 East Jefferson Avenue
Detroit, Michigan 48215

73. Utility Workers of America
1725 K Street, N.W.
Washington, D.C. 20006

74. Vertical Lift Aircraft Council
1725 De Sales Street, N.W.
Washington, D.C. 20036

75. Western Union Telegraph Company
60 Hudson Street
New York, New York 10013

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1. Air Conditioning, Heating and Refrigeration News
P.O. Box 6000
Birmingham, Michigan 48012

2. American Artist
165 West 46th Street
New York, New York 10036

3. American Cinematographer Magazine
1782 North Orange Drive
Hollywood, California 90028

4. American Machinist
330 West 42nd Street
New York, New York 10036

5. American Mathematical Monthly
1225 Connecticut Avenue, N.W.
Washington, D.C. 20036

6. American Sociological Review
1001 Connecticut Avenue, N.W.
Washington, D.C. 20036

7. Appliance Service News
5841 West Montrose Avenue
Chicago, Illinois 60634

8. Archaeology
100 Washington Square East
New York, New York 10003

9. Art Direction
19 West 44th Street
New York, New York 10036

10. ASHA (A Journal of the American Speech and Hearing Association)
Journal of Speech and Hearing Disorders
Journal of Speech and Hearing Research
9030 Georgetown Road
Washington, D.C. 20014

11. ASHRAE Journal
345 East 47th Street
New York, New York 10017

12. Astronautics and Aeronautics
1290 Avenue of the Americas
New York, New York 10019

13. Astronomical Journal, The
Yale University Observatory
New Haven, Connecticut 06520

14. Aviation Mechanics Bulletin
468 Park Avenue South
New York, New York 10016

15. Aviation Week and Space Technology
330 West 42nd Street
New York, New York 10036

16. Bell Telephone Magazine
195 Broadway
New York, New York 10007

17. Broadcast Journal
647 North Sepulveda Boulevard
Bel Air, Los Angeles, California 90049

PERIODICALS FOR CAREER INFORMATION

18. Broadcasting
1735 De Salis Street, N.W.
Washington, D.C. 20036

19. Broadcasting Engineering
4300 West 62nd Street
Indianapolis, Indiana 46268

20. Building Construction
5 South Wabash Avenue
Chicago, Illinois 60603

21. Bulletin of the General Contractors Association
220 East 42nd Street
New York, New York 10017

22. Business Products
740 Investment Building
Washington, D.C. 20006

23. Chemical and Engineering News
1155 Sixteenth Street, N.W.
Washington, D.C. 20006

24. Chemical Engineering
330 West 42nd Street
New York, New York 10017

25. Chemical Engineering Progress
245 East 47th Street
New York, New York 10017

26. Civil Engineering
345 East 47th Street
New York, New York 10017

27. Control Engineering
466 Lexington Avenue
New York, New York 10017

28. Dairy Variety
6404 Sunset Boulevard
Hollywood, California 90028

29. Down Beat Magazine
222 West Adams Street
Chicago, Illinois 60606

30. Editor and Publisher
850 Thrid Avenue
New York, New York 10022

31. Electrical Workers Journal
1200 Fifteenth Street, N.W.
Washington, D.C. 20005

32. Electronic Age
30 Rockefeller Plaza
New York, New York 10017

33. Engineer
235 East 47th Street
New York, New York 10017

34. Engineering News Record
330 West 42nd Street
New York, New York 10036

35. Engineering Opportunities
2211 Fordem Avenue
Madison, Wisconsin 53701

PERIODICALS FOR CAREER INFORMATION

36. Farm and Power Equipment
2340 Hampton Avenue
St. Louis, Missouri 63139

37. Firemen
60 Batterymarch Street
Boston, Massachusetts 02110

38. Fleet Management News
300 West Lake Street
Chicago, Illinois 60606

39. Fleet Owner
330 West 42nd Street
New York, New York 10036

40. Flight Magazine
P.O. Box 750
Dallas, Texas 75221

41. Flight Magazine
2700 North Haskell Street
Dallas, Texas 75204

42. Flying
1 Park Avenue
New York, New York 10016

43. Geophysics
Society of Exploration Geophysicists
Box 3098
Tulsa, Oklahoma 74101

44. Guard News
116 Marbern Road
Hagerstown, Maryland 21740

45. Implement and Tractor
1014 Wyandotte Street
Kansas City, Missouri 64105

46. Independent Union of Plant Protection News
230 North Street
Pittsfield, Massachusetts 01201

47. Industrial Design
18 East 50th Street
New York, New York 10022

48. Industrial Maintenance and Plant Operation
One West Olney Avenue
Philadelphia, Pennsylvania 19120

49. Industrial Science and Engineering
Caxton Building
Cleveland, Ohio 44115

50. Instruments and Control Systems
845 Ridge Avenue
Pittsburgh, Pennsylvania 15212

51. International Fire Fighter
905 Sixteenth Street, N.W.
Washington, D.C. 20006

52. ISA Journal
530 William Penn Place
Pittsburgh, Pennsylvania 15219

PERIODICALS FOR CAREER INFORMATION

53. Journal of Applied Physics
335 East 45th Street
New York, New York 10017

54. Journal of Architectural Education
Association of Collegiate Schools
521 Eighteenth Street, N.W.
Washington, D.C. 20006

55. Journal of Geophysical Research
2100 Pennsylvania
Washington, D.C. 20006

56. Journal of Industrial Engineering, The
345 East 47th Street
New York, New York 10017

57. Journal of the American Institute
of Architects
1735 New York Avenue, N.W.
Washington, D.C. 20006

58. Journal of the SMPTE
Society of Motion Picture
and Television Engineers
9 East 41st Street
New York, New York 10017

59. Machine Design
Penton Building
Cleveland, Ohio 44113

60. Machinist, The
1300 Connecticut Avenue
Washington, D.C. 20036

61. Maintenance Engineering
1 River Road
Cos Cob, Connecticut 06807

62. Marine Engineering/Log
30 Church Street
New York, New York 10007

63. Marine Engineering/Log
350 Broadway
New York, New York 10013

64. Marine Technology
74 Trinity Place
New York, New York 10006

65. Mechanical Engineering
345 East 47th Street
New York, New York 10017

66. Motion Picture Herald
1270 Sixth Avenue
New York, New York 10020

67. Motor Age
Chestnut and 56th Streets
Philadelphia, Pennsylvania 19139

68. Motor Service Magazine
205 West Monroe Street
Chicago, Illinois 60606

PERIODICALS FOR CAREER INFORMATION

69. Music Educators Journal
Music Educators National Conference
1201 Sixteenth Street, N.W.
Washington, D.C. 20036

70. Music Trades Magazine, The
111 West 57th Street
New York, New York 10019

71. Musical Merchandise Review
900 North Star Center
Minneapolis, Minnesota 55402

72. National Engineer
176 West Adams Street
Chicago, Illinois 60603

73. National Music Council Bulletin
2109 Broadway
New York, New York 10023

74. National Press Photographer
1001 Fourth Avenue South
Fargo, North Dakota 58102

75. Naval Engineers Journal
American Society of Naval Engineers
1012 Fourteenth Street, N.W.
Washington, D.C. 20005

76. Nuclear Engineering
111 Broadway
New York, New York 10006

77. Nuclear Science and Engineering
244 East Odgen Avenue
Hinsdale, Illinois 60521

78. Office Products Dealer
Ojibway Building
Duluth, Minnesota 55802

79. Physics Today
335 East 45th Street
New York, New York 10017

80. Piano Trade Magazine
434 South Wabash Avenue
Chicago, Illinois 60604

81. Popular Mechanics
224 West 57th Street
New York, New York 10019

82. Power Engineering
1301 South Grove Avenue
Barrington, Illinois 60010

83. Radio and Television Weekly
145 Sixth Avenue
New York, New York 10003

84. Radiology News
90 Park Avenue
New York, New York 10016

85. Review of Scientific Instruments
335 East 45th Street
New York, New York 10017

86. Rotor and Wing Magazine
News Plaza
Peoria, Illinois 61601

87. SIAM Review
33 South 17th Street
Philadelphia, Pennsylvania 19103

88. Skin Diver
Peterson Publishing Company
8490 Sunset Boulevard
Los Angeles, California 90069

89. Sky and Telescope
60 Garden Street
Cambridge, Massachusetts 02138

90. Telephone Engineer and Management
402 West Liberty
Wheaton, Illinois 60605

91. Telephony
608 South Dearborn Street
Chicago, Illinois 60605

92. Transport Topics
1616 P. Street, N.W.
Washington, D.C. 20036

93. Variety
154 West 46th Street
New York, New York 10036

94. Vertical World Magazine
1317 F. Street, N.W.
Suite 407
Washington, D.C. 20004